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A SURVEY ON ATTRIBUTE GRAMMARS

PART III CLASSIFIED BIBLIOGRAPHY

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Part III : Classified Bibliography

Abstract : This bibliography is the third part of a Survey on Attribute Grammars consisting of three parts :

- Main Results on Attribute Grammars
- Review of Existing Systems
- Classified Bibliography.

Key Words : Attribute Grammars, Evaluation, Semantics.

Résumé : Cette bibliographie est la troisième partie d'une étude sur les Grammaires Attribuées qui comporte trois parties :

- Principaux Résultats sur les Grammaires Attribuées
- Revue des Systèmes Existants
- Bibliographie Classée.

Mots-clé : Grammaires Attribuées, Evaluation, Sémantique.

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PAPIER RÉCUPÉRÉ ET RÉCYCLÉ

Bibliographic analysis

The bibliography contains about 450 different references. Most of the material published during the last fifteen years after the "historical" paper of Knuth [Knu 68] presenting the method has been collected. All the papers are directly related to some aspects of the method, some of them concern its most quoted theoretical backgrounds (classified in "Miscellaneous").

Criteria of classification

The bibliography is subdivided into ten categories.

- 1 - Allocation (21 ref) all works on space optimization in attribute evaluators (to decrease their static and dynamic size). Some of them are related to time optimizations.
- 2 - Applications (92 ref)

This category is classified into nine fields of applications :

- Program verification (17 ref)
- Data bases (7 ref): attributes are used to describe integrity constraints.
- Data flow analysis (9 ref) this problem, originated from applications to compilation, has applications to data driven languages or unique assignment languages.
- Editors (4 ref) syntax oriented editors; a new growing application.
- Code generation (14 ref): up to now, attribute evaluators have been used to build front-end compilers. More attention is given now to this important part of compiler production systems to specify also the code generation phase.

- Graphs (3 ref) and graph grammars, or any structure which can be formalized by a graph and informations attached to its nodes. Such applications imply generally the use of a more general object than ordinary attribute grammar.
 - Program transformation (8 ref) works in which attributed tree transformations are considered. These works are generally connected to the topic "Programming".
 - Programming (10 ref) some studies are devoted to the use of attribute grammars as a tool to write and structure programs.
 - Meta-compilation (13 ref without code-generation).
- 3 - Circularity (12 ref): All references dealing with the famous (generally exponential) circularity test of attribute grammars.
- 4 - Classification (92 ref): As what has been happening in syntax analysis with context free grammars, the works on attribute evaluators have been leading to a rich variety of attribute grammars organized by some authors into a vaste classification. In that category we have grouped all works on techniques of attribute evaluation, some of them concern directly classification problems and related topics. Numerous papers deal with the theoretical basis of systems documented in the category "Systems".
- 5 - Miscellaneous (66 ref)
- This category is subdivided into six fields :
- General backgrounds on programming and specification (22 ref)
 - Affix Grammars (13 ref)
 - Algebraic semantics (5 ref)
 - Denotational semantics (9 ref)
 - General backgrounds on translators (13 ref)
 - NP-completeness (4 ref)

6 - Examples (25 ref)

Concerns description of languages which have been described by (at least) one attribute grammar. Here are : ADA, ALGOL, EUCLID, FORTRAN, LISP, PEARL, PL/1, SIMULA.

7 - Semantics (45 ref)

All works devoted to the study of formal semantics of attribute grammars.

8 - Reviews (18 ref)

Only one paper is exactly a "review" [Eng 84]. Two are bibliographies whose references on attribute grammars have been included in that one [Räihä 80 b and MN 82]. The remaining works can be considered as pedagogical introductions to ordinary attribute grammar.

9 - Systems (110 ref)

Most of the systems are meta-compiling systems (one is editor oriented - CPS). We could distinguish the "pure systems", which are models for others, as : COPS, CPS, CWS, DELTA, FNC, ERN, FOLDS, GAG, HLP, MUG, LINGUIST 86, LINGUA, NEATS, PENJ, SUPER; from the "derived systems" as PAPA, HLP/SZ, CIS, APARSE, and the "using systems" which use attribute grammar as a support only or are not directly attribute grammar evaluators, as : LILA, SETHI, PERLUETTE, CGSG.

10 - Variations (11 ref)

This last category contains references in which comparisons between different formalisms are made at a formal level (recursive program schemes [CF 82, CD 84], logic programming [DM 84 a, b], W-grammars [DM 78, PS 77], denotational semantics [Gan 79 a, 80 a]) or at a practical level [MLB 76].

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